

SEQ ID No.:1

SEQUENCE TYPE: amino acid

TOPOLOGY: linear

MOLECULAR TYPE: protein

SEQUENCE :

Ala	Glu	Met	Thr	Thr	Phe	Ser	Gln	Lys	Ile	Leu	Ala	Asn	Ala	Cys	Thr
1					5				10					15	
Leu	Val	Met	Cys	Ser	Pro	Leu	Glu	Ser	Gly	Leu	Pro	Gly	His	Asp	Gly
			20					25					30		
Gln	Asp	Gly	Arg	Glu	Cys	Pro	His	Gly	Glu	Lys	Gly	Asp	Pro	Gly	Ser
		35					40					45			
Pro	Gly	Pro	Ala	Gly	Arg	Ala	Gly	Arg	Pro	Gly	Trp	Val	Gly	Pro	Ile
	50					55				60					
Gly	Pro	Lys	Gly	Asp	Asn	Gly	Phe	Val	Gly	Glu	Pro	Gly	Pro	Lys	Gly
65					70					75					80
Asp	Thr	Gly	Pro	Arg	Gly	Pro	Pro	Gly	Met	Pro	Gly	Pro	Ala	Gly	Arg
				85					90					95	
Glu	Gly	Pro	Ser	Gly	Lys	Gln	Gly	Ser	Met	Gly	Pro	Pro	Gly	Thr	Pro
		100					105					110			
Gly	Pro	Lys	Gly	Glu	Thr	Gly	Pro	Lys	Gly	Gly	Val	Gly	Ala	Pro	Gly
		115				120					125				
Ile	Gln	Gly	Phe	Pro	Gly	Pro	Ser	Gly	Leu	Lys	Gly	Glu	Lys	Gly	Ala
	130					135				140					
Pro	Gly	Glu	Thr	Gly	Ala	Pro	Gly	Arg	Ala	Gly	Val	Thr	Gly	Pro	Ser
145				150					155					160	
Gly	Ala	Ile	Gly	Pro	Gln	Gly	Pro	Ser	Gly	Ala	Arg	Gly	Pro	Pro	Gly
			165					170					175		
Leu	Lys	Gly	Asp	Arg	Gly	Asp	Pro	Gly	Glu	Thr	Gly	Ala	Ser	Gly	Glu
		180					185				190				
Ser	Gly	Leu	Ala	Glu	Val	Asn	Ala	Leu	Lys	Gln	Arg	Val	Thr	Ile	Leu
	195					200				205					
Asp	Gly	His	Leu	Arg	Arg	Phe	Gln	Asn	Ala	Phe	Ser	Gln	Tyr	Lys	Lys
	210					215				220					
Ala	Val	Leu	Phe	Pro	Asp	Gly	Gln	Ala	Val	Gly	Glu	Lys	Ile	Phe	Lys
225				230					235						240

Thr	Ala	Gly	Ala	Val	Lys	Ser	Tyr	Ser	Asp	Ala	Glu	Gln	Leu	Cys	Arg
				245					250					255	
Glu	Ala	Lys	Gly	Gln	Leu	Ala	Ser	Pro	Arg	Ser	Ser	Ala	Glu	Asn	Glu
			260					265					270		
Ala	Val	Thr	Gln	Met	Val	Arg	Ala	Gln	Glu	Lys	Asn	Ala	Tyr	Leu	Ser
		275					280					285			
Met	Asn	Asp	Ile	Ser	Thr	Glu	Gly	Arg	Phe	Thr	Tyr	Pro	Thr	Gly	Glu
	290					295					300				
Ile	Leu	Val	Tyr	Ser	Asn	Trp	Ala	Asp	Gly	Glu	Pro	Asn	Asn	Ser	Asp
305					310				315					320	
Glu	Gly	Gln	Pro	Glu	Asn	Cys	Val	Glu	Ile	Phe	Pro	Asp	Gly	Lys	Trp
			325					330					335		
Asn	Asp	Val	Pro	Cys	Ser	Lys	Gln	Leu	Leu	Val	Ile	Cys	Glu	Phe	
		340					345						350		

SEQ ID No.:2

SEQUENCE LENGTH: 171

SEQUENCE TYPE: amino acid

TOPOLOGY: linear

MOLECULAR TYPE: protein

SEQUENCE:

Gly	Leu	Pro	Gly	His	Asp	Gly	Gln	Asp	Gly	Arg	Glu	Cys	Pro	His	Gly
1				5					10					15	
Glu	Lys	Gly	Asp	Pro	Gly	Ser	Pro	Gly	Pro	Ala	Gly	Arg	Ala	Gly	Arg
			20					25					30		
Pro	Gly	Trp	Val	Gly	Pro	Ile	Gly	Pro	Lys	Gly	Asp	Asn	Gly	Phe	Val
		35				40					45				
Gly	Glu	Pro	Gly	Pro	Lys	Gly	Asp	Thr	Gly	Pro	Arg	Gly	Pro	Pro	Gly
	50				55				60						
Met	Pro	Gly	Pro	Ala	Gly	Arg	Glu	Gly	Pro	Ser	Gly	Lys	Gln	Gly	Ser
	65				70				75					80	
Met	Gly	Pro	Pro	Gly	Thr	Pro	Gly	Pro	Lys	Gly	Glu	Thr	Gly	Pro	Lys
			85					90					95		
Gly	Gly	Val	Gly	Ala	Pro	Gly	Ile	Gln	Gly	Phe	Pro	Gly	Pro	Ser	Gly
		100					105					110			
Leu	Lys	Gly	Glu	Lys	Gly	Ala	Pro	Gly	Glu	Thr	Gly	Ala	Pro	Gly	Arg
	115						120					125			

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Ala Gly Val Thr Gly Pro Ser Gly Ala Ile Gly Pro Gln Gly Pro Ser
130 135 140
Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly
145 150 155 160
Glu Thr Gly Ala Ser Gly Glu Ser Gly Leu Ala
165 170

SEQ ID No.:3

SEQUENCE LENGTH: 3

SEQUENCE TYPE: amino acid

TOPOLOGY: linear

MOLECULAR TYPE: peptide

FEATURE

LOCATION:2

OTHER INFORMATION: 2nd amino acid is a protein-constituting amino acid.

LOCATION:3

OTHER INFORMATION: 3rd amino acid is a protein-constituting amino acid.

SEQUENCE:

Gly Xaa Xaa

1

SEQ ID No.:4

SEQUENCE LENGTH: 28

SEQUENCE TYPE: nucleic acid

STRADEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid, synthesized DNA

SEQUENCE:

GGCTCGAGGG GGAGAGTGGG CTTGCAGA

28

SEQ ID No.:5

SEQUENCE LENGTH: 28

SEQUENCE TYPE: nucleic acid

STRADEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid, synthesized DNA

SEQUENCE:

GGGAATTCTC AAAACTCGCA GATCACAA

28

T0307T#20H2000T

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: WAKAMIYA, Nobutaka
- (ii) TITLE OF INVENTION: RECOMBINANT CONGLUTININ AND PRODUCING METHOD THEREOF
- (iii) NUMBER OF SEQUENCES: 5
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 - (B) STREET: 233 South Wacker Drive/6300 Sears Tower
 - (C) CITY: Chicago
 - (D) STATE: Illinois
 - (E) COUNTRY: United States of America
 - (F) ZIP: 60606-6402
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: PCT/JP96/00173
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: PCT/JP95/02035
 - (B) FILING DATE: 02-OCT-1995
- (viii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: JPA - 209698
 - (B) FILING DATE: 17-AUG-1995
- (ix) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Gass, David A.
 - (B) REGISTRATION NUMBER: 38,153
 - (C) REFERENCE/DOCKET NUMBER: 19036/34546
- (x) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (312) 474-6300
 - (B) TELEFAX: (312) 474-0448

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 351 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Ala	Glu	Met	Thr	Thr	Phe	Ser	Gln	Lys	Ile	Leu	Ala	Asn	Ala	Cys	Thr	
1				5					10					15		
Leu	Val	Met	Cys	Ser	Pro	Leu	Glu	Ser	Gly	Leu	Pro	Gly	His	Asp	Gly	
			20					25					30			
Gln	Asp	Gly	Arg	Glu	Cys	Pro	His	Gly	Glu	Lys	Gly	Asp	Pro	Gly	Ser	
		35					40					45				
Pro	Gly	Pro	Ala	Gly	Arg	Ala	Gly	Arg	Pro	Gly	Trp	Val	Gly	Pro	Ile	
	50					55					60					
Gly	Pro	Lys	Gly	Asp	Asn	Gly	Phe	Val	Gly	Glu	Pro	Gly	Pro	Lys	Gly	
65					70					75					80	
Asp	Thr	Gly	Pro	Arg	Gly	Pro	Pro	Gly	Met	Pro	Gly	Pro	Ala	Gly	Arg	
				85					90					95		
Glu	Gly	Pro	Ser	Gly	Lys	Gln	Gly	Ser	Met	Gly	Pro	Pro	Gly	Thr	Pro	
			100					105					110			
Gly	Pro	Lys	Gly	Glu	Thr	Gly	Pro	Lys	Gly	Gly	Val	Gly	Ala	Pro	Gly	
		115					120					125				
Ile	Gln	Gly	Phe	Pro	Gly	Pro	Ser	Gly	Leu	Lys	Gly	Glu	Lys	Gly	Ala	
	130					135					140					
Pro	Gly	Glu	Thr	Gly	Ala	Pro	Gly	Arg	Ala	Gly	Val	Thr	Gly	Pro	Ser	
145					150					155					160	
Gly	Ala	Ile	Gly	Pro	Gln	Gly	Pro	Ser	Gly	Ala	Arg	Gly	Pro	Pro	Gly	
				165					170					175		
Leu	Lys	Gly	Asp	Arg	Gly	Asp	Pro	Gly	Glu	Thr	Gly	Ala	Ser	Gly	Glu	
			180					185					190			
Ser	Gly	Leu	Ala	Glu	Val	Asn	Ala	Leu	Lys	Gln	Arg	Val	Thr	Ile	Leu	
		195					200					205				
Asp	Gly	His	Leu	Arg	Arg	Phe	Gln	Asn	Ala	Phe	Ser	Gln	Tyr	Lys	Lys	
	210					215					220					
Ala	Val	Leu	Phe	Pro	Asp	Gly	Gln	Ala	Val	Gly	Glu	Lys	Ile	Phe	Lys	
225					230					235					240	
Thr	Ala	Gly	Ala	Val	Lys	Ser	Tyr	Ser	Asp	Ala	Glu	Gln	Leu	Cys	Arg	
				245					250					255		

Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn Glu
260 265 270

Ala Val Thr Gln Met Val Arg Ala Gln Glu Lys Asn Ala Tyr Leu Ser
275 280 285

Met Asn Asp Ile Ser Thr Glu Gly Arg Phe Thr Tyr Pro Thr Gly Glu
290 295 300

Ile Leu Val Tyr Ser Asn Trp Ala Asp Gly Glu Pro Asn Asn Ser Asp
305 310 315 320

Glu Gly Gln Pro Glu Asn Cys Val Glu Ile Phe Pro Asp Gly Lys Trp
325 330 335

Asn Asp Val Pro Cys Ser Lys Gln Leu Leu Val Ile Cys Glu Phe
340 345 350

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Gly Leu Pro Gly His Asp Gly Gln Asp Gly Arg Glu Cys Pro His Gly
1 5 10 15

Glu Lys Gly Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Arg
20 25 30

Pro Gly Trp Val Gly Pro Ile Gly Pro Lys Gly Asp Asn Gly Phe Val
35 40 45

Gly Glu Pro Gly Pro Lys Gly Asp Thr Gly Pro Arg Gly Pro Pro Gly
50 55 60

Met Pro Gly Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser
65 70 75 80

Met Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Thr Gly Pro Lys
85 90 95

Gly Gly Val Gly Ala Pro Gly Ile Gln Gly Phe Pro Gly Pro Ser Gly
100 105 110

Leu Lys Gly Glu Lys Gly Ala Pro Gly Glu Thr Gly Ala Pro Gly Arg
115 120 125

Ala Gly Val Thr Gly Pro Ser Gly Ala Ile Gly Pro Gln Gly Pro Ser
130 135 140

Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly
145 150 155 160

Glu Thr Gly Ala Ser Gly Glu Ser Gly Leu Ala
165 170

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: misc.
- (B) LOCATION: 2
- (D) OTHER INFORMATION: /note= "2ND amino acid is a protein-constituting amino acid."

(ix) FEATURE:

- (A) NAME/KEY: misc.
- (B) LOCATION: 3
- (D) OTHER INFORMATION: /note= "3RD amino acid is a protein-constituting amino acid."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Gly Xaa Xaa
1

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

- (A) DESCRIPTION: /desc = "synthesized DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GGCTCGAGGG GGAGAGTGGG CTTGCAGA

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "synthesized DNA"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GGGAATTCTC AAAACTCGCA GATCACA

28

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